OPTUS SECURECAM USER GUIDE.

MAKE NOTE OF YOUR OPTUS SECURECAM DETAILS HERE	
Username	
Password	
Username	
Password	
Username	
Password	
SECURECAM TECHNICAL SUPPORT	1300 653 964
BILLING ENQUIRIES	
Small and Medium Business Customers	133 343
Consumer Customers	133 697
WEBSITE	mobile.optuszoo.com.au

SMALL & MEDIUM BUSINESS

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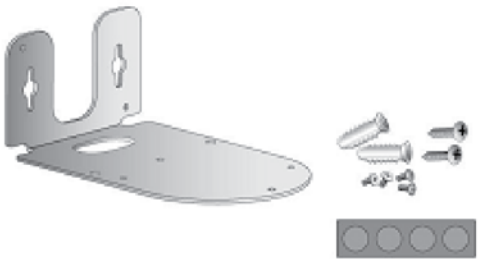
Package Contents

PT7137

Power Adapter

Camera Mount Kit & Pads



Antenna

Warranty Card

Quick Installation Guide

Getting Started

To begin with, check that your product package contains all the items listed in the Package Contents. During setup, an Ethernet connection must first be used to configure the camera before it can be used wirelessly.

Connection through Ethernet

Use Ethernet cable to connect the Camera to your broadband router or network device. **Use Category 5 Cross Cable when the Camera is directly connected to PC.*

Keep the Ethernet cable connected until the camera setup is complete. This is when the unit is ready to mount.

Connect to Power Outlet

Connect the power adapter to your Camera before plugging it in to the power socket. This will reduce the risk of accidental electric shock.

Once you have connected the power adaptor to the power socket, the Camera will turn on. The front red light will light first and the device will commence start-up. During start-up the red, blue and green lights will be on. After the Camera has started-up it will standby for receiving an IP address. Once the IP Address has been allocated, the green light will blink every second.

The Camera will first detect the Ethernet. If it does not connect to Ethernet, the Camera will try WLAN. During the searching and connecting process to the wireless access point or station, the red light on the Camera will flash every second. Until the Camera connects to the other wireless device, the red light will remain on. Operating in either Ethernet or WLAN, the green light will flash every second to indicate that the camera is functioning properly. If the red light is blinking, please check the network connections.

Register your Optus SecureCam Account

NOTE: If you have purchased multiple cameras, you will only need to complete the registration process once. In this case, you will only need the MAC address of the camera you have connected in the 'Getting Started' section.

1. Open up web browser and go to **http://mobile.optuszoo.com.au**.
2. Click ▸Create New Login icon, refer to "SecureCam Landing Page".
3. Enter your Optus mobile number and the MAC address for your camera and click ▸Next. The MAC address can be found on the sticker on the bottom of the camera.
4. If successful, a snapshot from the camera will appear with a green "Connection Successful" box and you can continue to the next step. If unsuccessful, a red "Unsuccessful" notice will appear. In this case, please check that your camera is connected properly (refer to 'Getting Started' section) and click the **'Test'** button. If the connection is still unsuccessful, please contact Technical Support.
5. Fill in your account details and click ▸Next.
6. Fill in your subscriber deatils and click ▸Next.
7. You will be directed to a Terms and Conditions page. If you agree to our Terms and Conditions select

   I Accept, please supply the services
8. You will now be directed to your Optus SecureCam Home Page. Your purchased cameras have now been added to your account and can be found in the Video tab.

Adding a Wireless Connection between the Camera and Broadband Router

NOTE: If the Ethernet is not available while the power is on, the Camera will search for any wireless network with the identifier (SSID) of "default". Once a wireless network is found, the light will turn blue, ready for installation. If the camera is unable to detect a wireless network with the default settings, install the Camera using a wired (Ethernet) connection, and proceed to the wireless configuration section of this guide.

1. Ensure you can have a connection to the camera via an Ethernet cable and your camera appears in the list of cameras on the Video page of the Optus SecureCam portal. Refer to the "Connect your Camera" and "Registering your Account" sections in this User Guide.
2. Ensure that your camera is still connected via an Ethernet cable and obtain your wireless settings from your network administrator before proceeding.
3. Select Video icon in the menu column of the Optus SecureCam web page.
4. Select **Edit** icon next to desired camera.
5. Expand the **"Wireless Settings"** tab.
6. Enter in your home wireless network settings, refer to "Appendix C: Wireless Security Guide and Options" of this User Guide for assistance.
7. Please ensure your Wireless settings are correct, then click

. Wait 30 seconds and then disconnect your camera Ethernet cable.
8. Your camera will now restart. If your wireless network is found by the camera, the camera green status LED will flash, and the red status LED will be solid. Please refer to Appendix A for the status LED procedure. If unsuccessful, you will be able to view your camera wirelessly in the Video page.
9. If the camera red status LED flashes and the camera has not found your wireless network, re-connect the Ethernet cable and restart the camera power. Please refer to "Appendix A: Troubleshooting Your Camera" of this User Guide for the status LED procedure.

Some invalid settings may cause the system failing to respond. Change the configuration only if necessary and consult with your network supervisor or experienced users for correct settings. Once the system has lost contact, refer to "Appendix A: Troubleshooting Your Camera" of this User Guide for reset and restore procedures.

Positioning of Camera

Before mounting, it is recommended that you test the preferred position of the camera. This ensures that the field of view is suitable and the camera is able to function properly. If the camera has been added successfully, remove the Ethernet connection and position the camera as desired.

Navigating the Optus SecureCam Web Site

Optus SecureCam Home Page

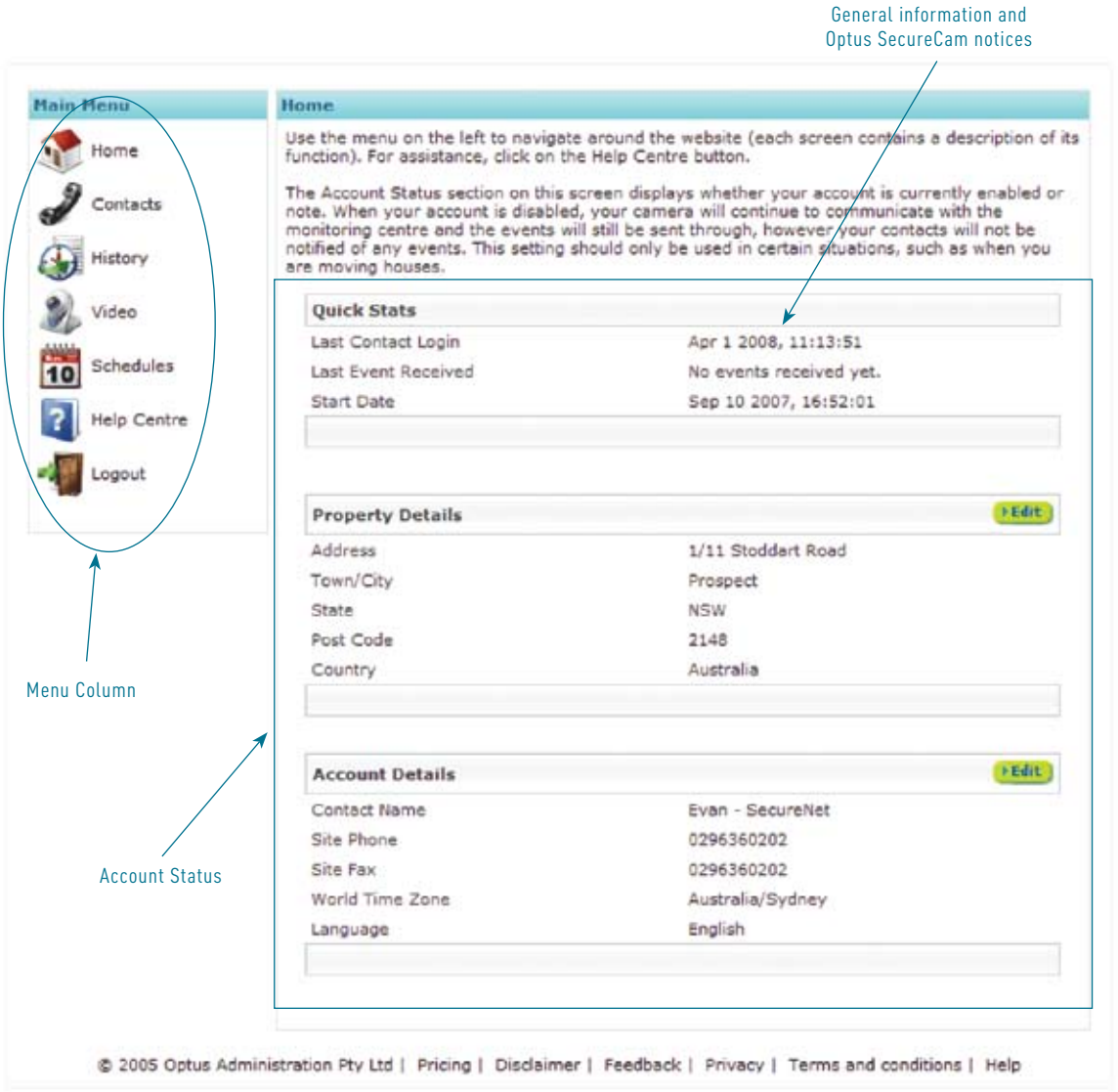
You are here: Optus Zoo Home / My Mobile / Optus SecureCam
Help
Logout
Optus SecureCam
The innovative way to keep an eye on your property, Optus SecureCam streams real-time video from your home or office straight to your mobile or computer.
Peace of mind
View real time or archived video of your property from wherever you are, on your mobile phone or computer. More than one room to view? You can connect multiple cameras to a single broadband link.
Secure
A daily check can be run to ensure your camera is still online. You'll receive notification via SMS or email if there's a problem.
Convenient
Installation is as easy as mounting the camera. Simply follow the step by step user guide to get started. Viewing real time video is easy on your mobile or computer. With Optus SecureCam you can:
View real time video on your handset and review archived video on your computer.
The Optus SecureCam server can store up to 100MB of video or you can simply save it to your PC.
Control the security camera remotely via your mobile phone or computer.
Receive notification within 30 seconds when your camera detects motion in your premises, for example when your business opens or closes or when the kids arrive home.
View both your private camera footage and public web cams for example surf or weather cams.
Powered by securenet
How much does it cost?
To find out more about Optus SecureCam including the pricing, please follow the links below:
Optus SecureCam Personal
Optus SecureCam Business
Note: You need a compatible handset to view the video and hear the audio content
Optus SecureCam Login
I have an Optus SecureCam login
Please login using your Optus SecureCam user ID and password.
Note: This is NOT your OptusZoo login!
User ID:
Password:
Forgot your password?
Sign In
I don't have an Optus SecureCam login
Create New Login
Optus SecureCam login
Register new Accounts

Logging into Optus SecureCam

1. Log in by entering your Optus SecureCam pre-activated Mobile number as User ID and password.
2. If successful, you will be redirected to your Optus SecureCam Portal Account Home Page.
3. If unsuccessful, please contact Optus SecureCam Support on 1300 653 964.

Your Account Home Page

The Account Status section on this screen displays whether your account is currently enabled. When your account is disabled, your camera will continue to communicate with the monitoring centre and the events will still be sent. However, your subscribers will not be notified of any events. This setting is not recommended and should only be used in specific situations, such as when you are moving house.


General information and
Optus SecureCam notices
Main Menu
Home
Contacts
History
Video
Schedules
Help Centre
Logout
Menu Column
Account Status
Home
Use the menu on the left to navigate around the website (each screen contains a description of its function). For assistance, click on the Help Centre button.
The Account Status section on this screen displays whether your account is currently enabled or note. When your account is disabled, your camera will continue to communicate with the monitoring centre and the events will still be sent through, however your contacts will not be notified of any events. This setting should only be used in certain situations, such as when you are moving houses.
Quick Stats
Last Contact Login
Apr 1 2008, 11:13:51
Last Event Received
No events received yet.
Start Date
Sep 10 2007, 16:52:01
Property Details
Edit
Address
1/11 Stoddart Road
Town/City
Prospect
State
NSW
Post Code
2148
Country
Australia
Account Details
Edit
Contact Name
Evan - SecureNet
Site Phone
0296360202
Site Fax
0296360202
World Time Zone
Australia/Sydney
Language
English
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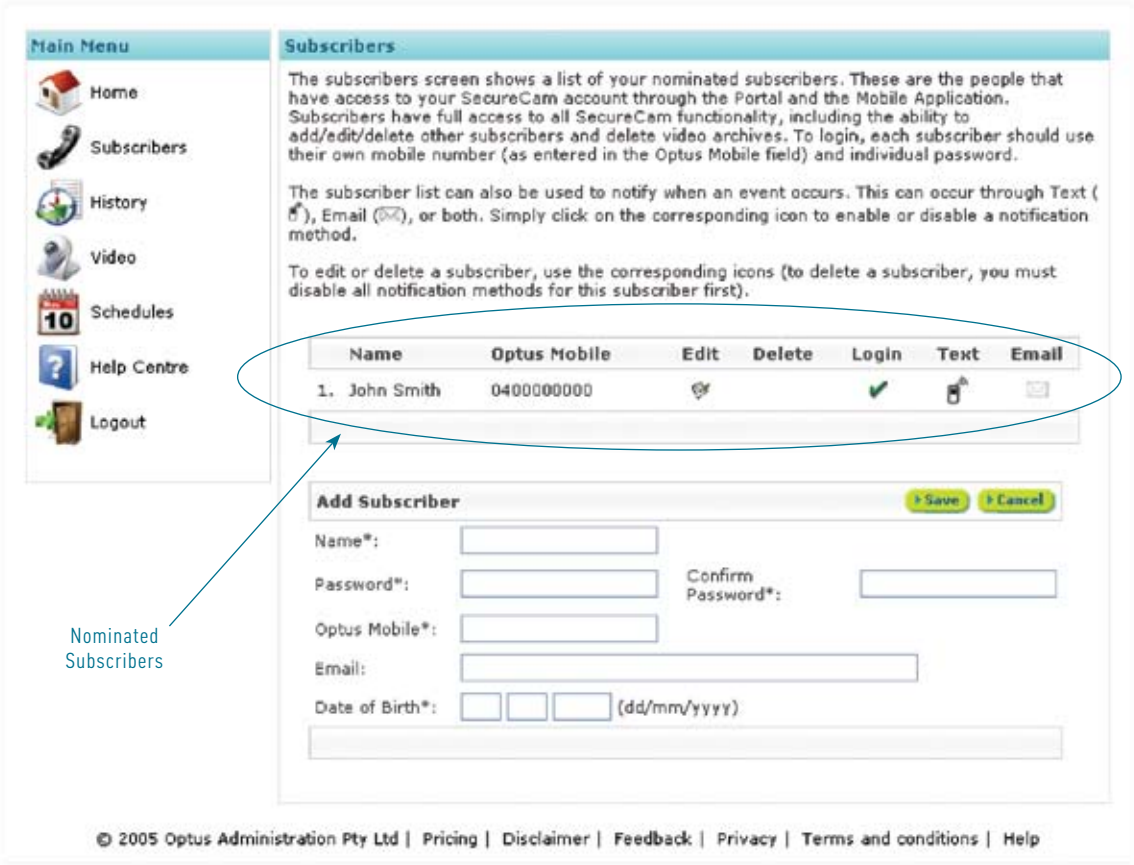
Subscribers

The Subscribers page shows a list of your nominated subscribers. These are the people that have access to the account through the SecureCam portal and Mobile Application. The subscribers can also receive notifications when an event occurs (by SMS or Email). Notification settings are also configured on this screen, simply click on the corresponding icon to enable or disable the notification method for each subscriber.

Subscribers have full access to all Optus SecureCam functionality in both the web portal and mobile application, including the ability to add/edit/delete other subscribers and delete video archives.

When a subscriber is added to your account, Optus SecureCam will automatically send an SMS to their Optus mobile containing instructions on how to install the Optus SecureCam mobile application. Refer to the section "Navigating the Optus SecureCam Mobile Application" for more details.


Main Menu
Home
Subscribers
History
Video
Schedules
Help Centre
Logout
Subscribers
The subscribers screen shows a list of your nominated subscribers. These are the people that have access to your SecureCam account through the Portal and the Mobile Application. Subscribers have full access to all SecureCam functionality, including the ability to add/edit/delete other subscribers and delete video archives. To login, each subscriber should use their own mobile number (as entered in the Optus Mobile field) and individual password.
The subscriber list can also be used to notify when an event occurs. This can occur through Text ( ), Email ( ), or both. Simply click on the corresponding icon to enable or disable a notification method.
To edit or delete a subscriber, use the corresponding icons (to delete a subscriber, you must disable all notification methods for this subscriber first).
Name
Optus Mobile
Edit
Delete
Login
Text
Email
1. John Smith
0400000000
Add Subscriber
Save
Cancel
Name*:
Password*:
Confirm Password*:
Optus Mobile*:
Email:
Date of Birth*:
(dd/mm/yyyy)
Nominated Subscribers
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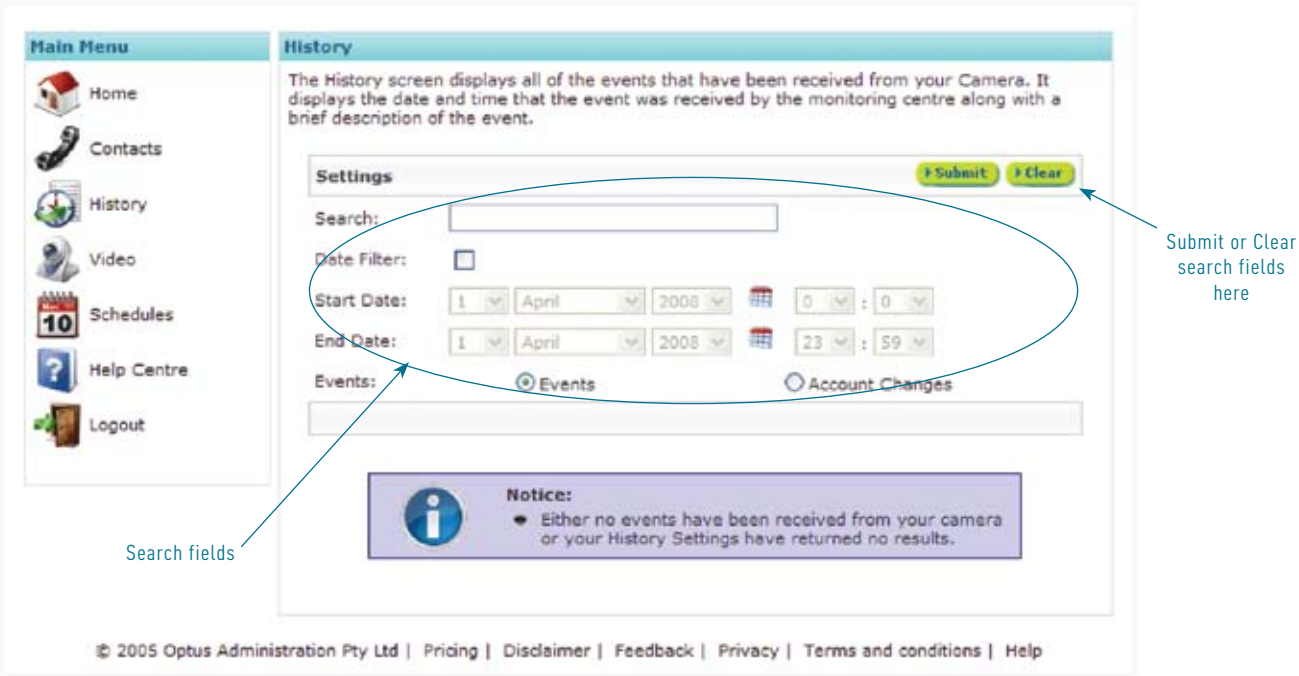
Adding Subscribers

1. Select the Subscribers icon in menu column
2. Select ▶ Add Subscriber, located at the bottom of the main body
3. Enter in the required fields and select ▶ Save to update the information, or ▶ Cancel to return to previous screen without saving the changes.

To be set up as a subscriber, charges will apply, please see the Optus SecureCam brochure for further details.

History

The History screen displays all of the events that have been received from your Camera. It displays the date and time that the event was received by the monitoring centre along with a brief description of the event.


Main Menu
Home
Contacts
History
Video
Schedules
Help Centre
Logout
History
The History screen displays all of the events that have been received from your Camera. It displays the date and time that the event was received by the monitoring centre along with a brief description of the event.
Settings
Submit
Clear
Search:
Date Filter:
Start Date:
End Date:
Events:
Events
Account Changes
Notice:
Either no events have been received from your camera or your History Settings have returned no results.
Submit or Clear search fields here
Search fields
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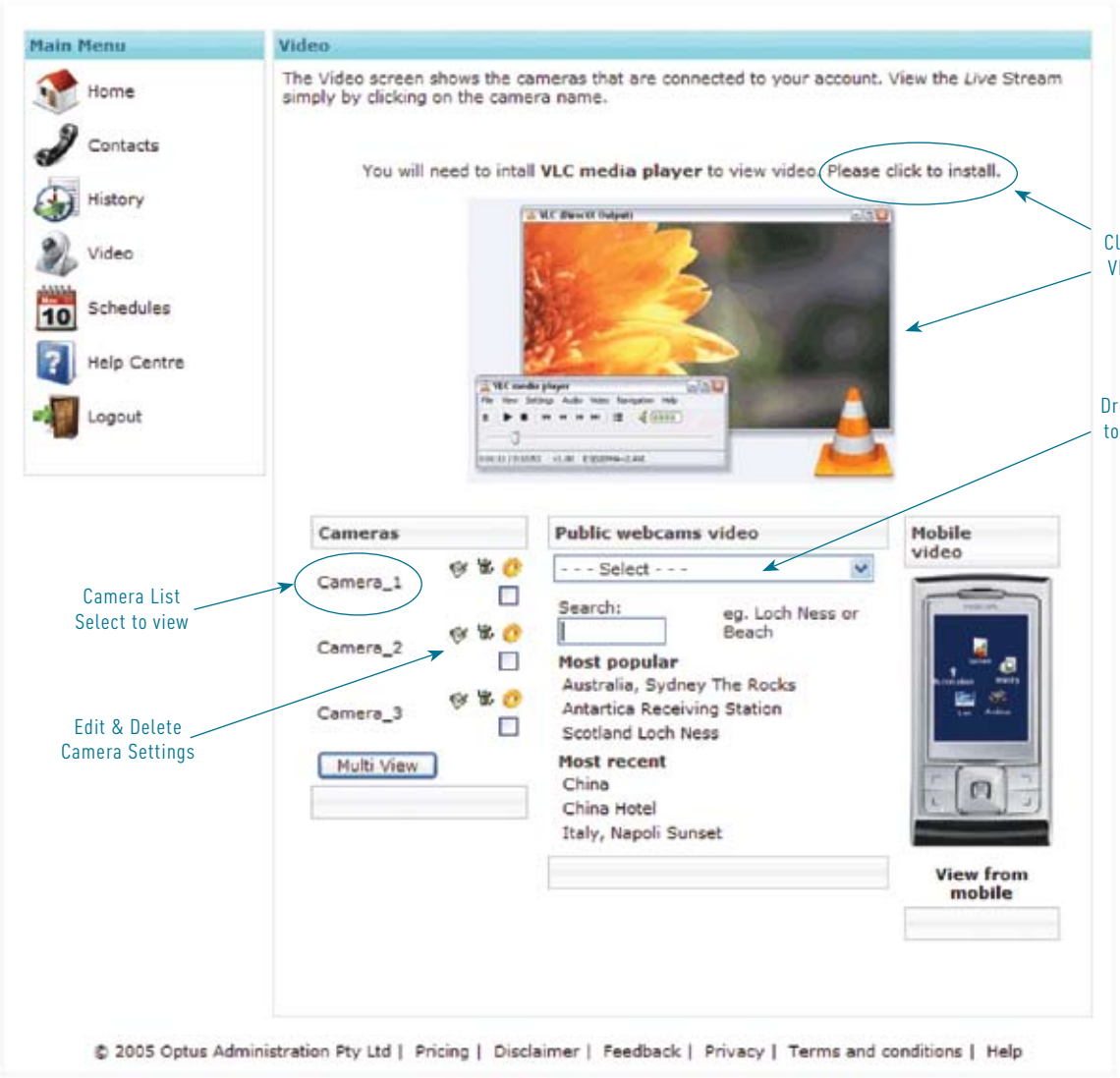
Searching History

1. If desired, enter a search string to narrow down the results.
2. Select appropriate date and time values in drop down boxes to narrow results.
3. Select Submit to perform a search, or Clear to reset the fields to their default inputs.

Video

The Video screen shows the cameras that are connected to your account. View the Live Stream simply by clicking on the camera name.


Main Menu
Home
Contacts
History
Video
Schedules
Help Centre
Logout
Video
The Video screen shows the cameras that are connected to your account. View the Live Stream simply by clicking on the camera name.
You will need to intall VLC media player to view video. Please click to install.
Click to install VLC player, to view video
Drop down box to view public Cameras
Camera List Select to view
Edit & Delete Camera Settings
Cameras
Camera_1
Camera_2
Camera_3
Multi View
Public webcams video
- - - Select - - -
Search:
eg. Loch Ness or Beach
Most popular
Australia, Sydney The Rocks
Antartica Receiving Station
Scotland Loch Ness
Most recent
China
China Hotel
Italy, Napoli Sunset
Mobile video
View from mobile
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To view live video streams you need VLC media player installed. If you have not already done so please install VLC media player by selecting the "Please click to install" link or the VLC media player image. Refer to Appendix D: Installing VLC media player.

Once a camera is selected from the Cameras list, a live stream from the camera is shown in the main body. A "Recorded Footage" section will appear with Archived and Recorded Video Events drop down lists.

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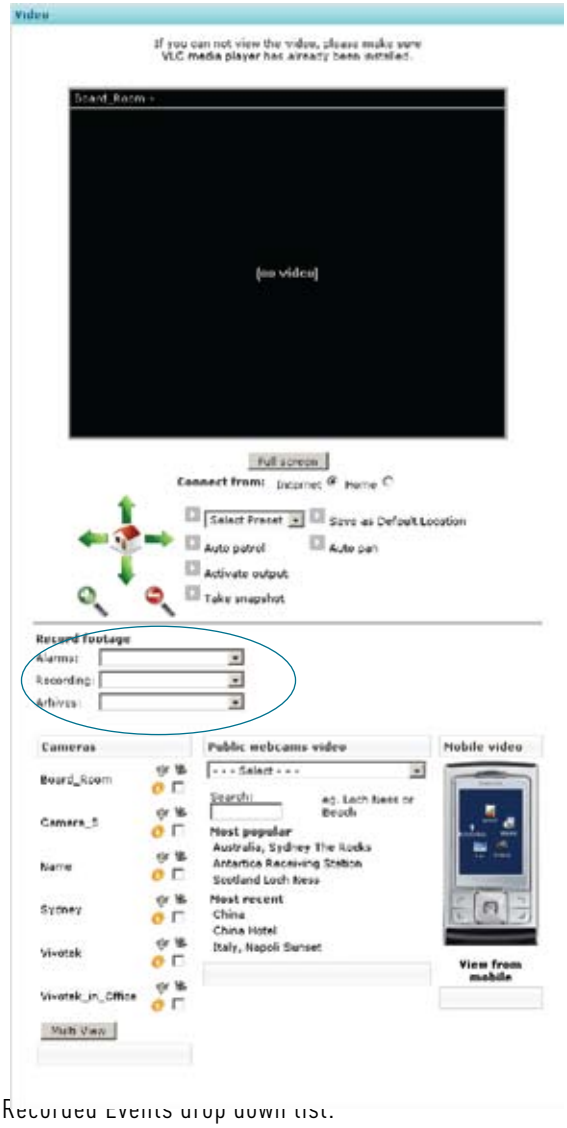


Viewing Live Video

Live video streams can be viewed using the portal. Select the desired camera from the Cameras list. The live video stream will be shown main window.

Recorded Video Events

When the camera detects motion it sends the footage to the Optus SecureCam servers. The recorded footage can be viewed any time through the Optus SecureCam portal or via your mobile. Additionally, if the footage was received within the notification schedule, it is flagged as an alarm and a notification text or email is sent out accordingly. (Refer to section Video Alerts with Optus SecureCam).

Your Optus SecureCam account has storage available for 30 Video Events. Once this limit is reached the oldest video event is automatically deleted. You may "archive" 5 video events which you don't want to be deleted. Alternatively you may save the video event to your mobile or PC by selecting "export". These are explained below.

Viewing Recorded Video Events

When the camera detects motion it sends the footage to the Optus SecureCam servers. The recorded footage can be viewed any time through the Optus SecureCam portal or via your mobile.

To view recorded video events:

1. Select the desired camera from the Cameras list.
2. A "Recorded Footage" section will appear within the Archived and Recorded Events drop down list.
3. Select the desired recorded video event from Recorded Events drop down list.
4. The video event will be displayed in the media player.

Archiving/Deleting Recorded Video Events

Video events maybe permanently archived. Each account is allowed a maximum of 5 archived video events (which will not be deleted unless explicitly overwritten or deleted by a subscriber). To archive or delete video events you will need to.

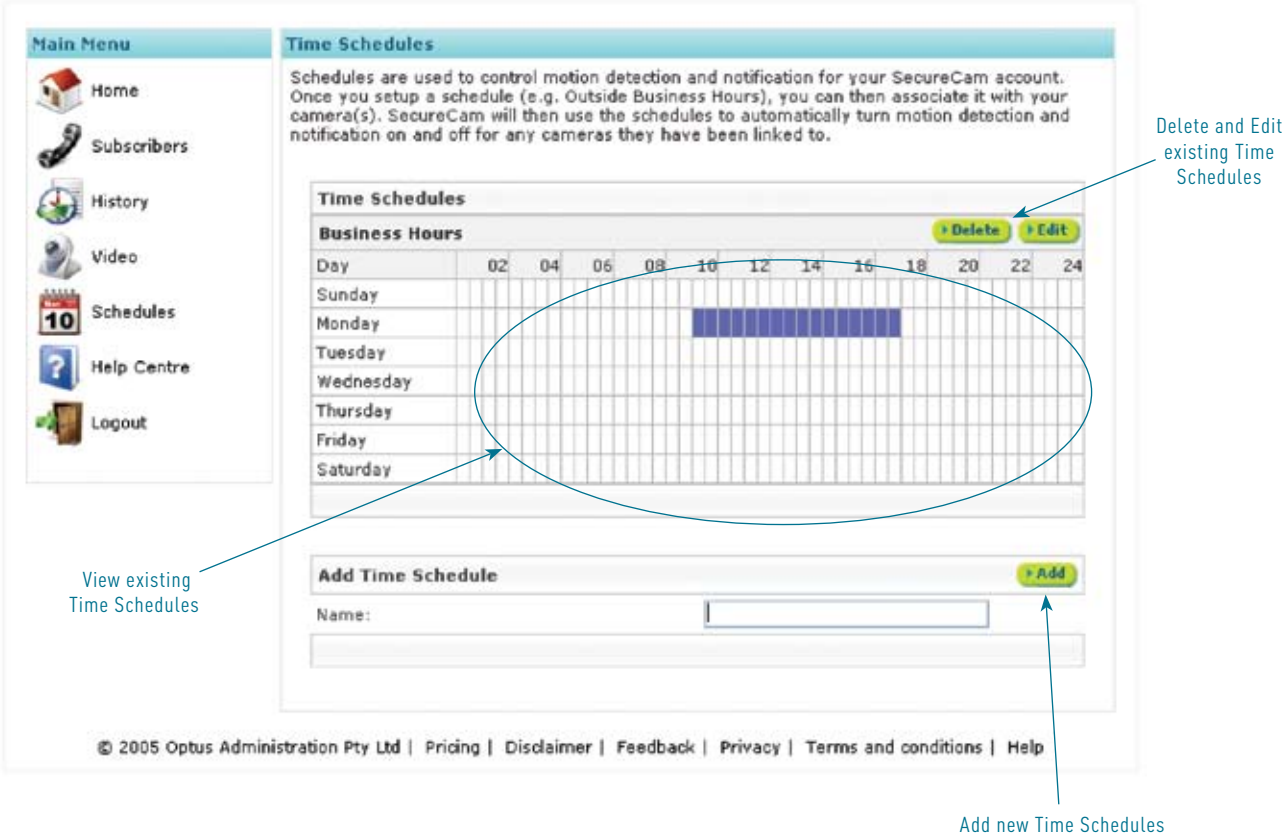
1. Select the desired recorded video event from Recorded Events drop down list.
2. Select **"Archive"** or **"Delete"** according to desired outcome.

Viewing Archived Video Events

1. Select the desired archived video event from Archived Recorded Events drop down list.
2. The video event will be displayed in the media player.

Schedules

Schedules are used to control motion detection and notification for your Optus SecureCam account. Once you setup a schedule (e.g. Outside Business Hours), you can then associate it with your camera(s). Optus SecureCam will then use the schedules to automatically turn motion detection and notification on and off for any cameras they have been linked to.


Main Menu
Home
Subscribers
History
Video
Schedules
Help Centre
Logout
Time Schedules
Schedules are used to control motion detection and notification for your SecureCam account. Once you setup a schedule (e.g. Outside Business Hours), you can then associate it with your camera(s). SecureCam will then use the schedules to automatically turn motion detection and notification on and off for any cameras they have been linked to.
Time Schedules
Business Hours
Delete
Edit
Day
02 04 06 08 10 12 14 16 18 20 22 24
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Add Time Schedule
Add
Name:
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Delete and Edit existing Time Schedules
View existing Time Schedules
Add new Time Schedules

NOTE: All times are Australian Eastern Standard Time.

Adding Schedules

1. Enter **Time Schedule Name**.
2. Select the ▶ Add icon.
3. Modify time periods with the drop down boxes in the "Add Time Period" section. Select ▶ Add to save or click ▶ Cancel to return to the previous screen.

Edit Schedules

1. Select ▶ Edit icon in the desired Time Schedule.
2. Modify time periods with the drop down boxes in the "Add Time Period" section. Select ▶ Add to save or click ▶ Cancel to return to the previous screen.

How do I setup my camera to start recording events?

- Upon successfully completing the camera's registration determine whether you want the camera to be always detecting motion or not.
- If you only want detection set to certain timeframes you need to create a schedule for the camera to use.
- Go to the Scheduling screen and create a weekly schedule that reflects the timeframes you want the camera to be detecting motion.
- Once you have created the schedule go to the Video screen and select the **Edit** icon for the camera you wish to set your motion detection for.
- In the Update camera panel select the '**Be Notified upon Motion Detection**' dropdown menu.

- If you have setup a schedule for the camera it will appear here in the dropdown for you to select it to activate motion detection within those timeframes.
- If you wish the motion detection to be always active there is an option for this selection in the dropdown.
- Also, you should select the '**Daily Online Check**' checkbox to ensure the camera remains active.
- Finally, in the Motion Detection window select the detection sensitivity level for the camera (Note: Medium is the preferred setting).

How do I connect my camera via Wi-Fi to my router?

- Using the Wi-Fi settings you've created in the router go to the Video screen and select the **Edit** icon for the camera you wish to set your Wi-Fi connection for.
- Enter the encryption security settings for the router in the Wireless Configuration panel. This will report the encryption settings to the camera.
- Click the '**?**' icon to the right of the Wireless Configuration heading and follow the wireless configuration setup screens for the router you have selected.

Video Alerts with Optus SecureCam

This section describes how to configure and use the Optus SecureCam account for video alerts and events.

The Optus SecureCam service can be managed from the Optus SecureCam portal and allows the user to:

- **View your Optus SecureCam camera via the web or your Optus mobile**
- **Set up notifications**
- **View recorded video events**
- **Archive video events**

NOTE: It is assumed that you have correctly registered and setup your account, added your subscribers, and configured your schedules. To correctly setup your account and camera please refer to "Getting Started" and "Navigating your Optus SecureCam portal".

Live View

The Optus SecureCam service allows the subscribers to view live camera streams from their camera via the web browser or their Optus mobile. To view via web refer to "Video" section of "Navigating the Optus SecureCam portal".

Once you have installed the Optus SecureCam mobile application on your handset you may view your camera(s) live. Once you have logged into the application, select the camera you would like to view from the camera list. Refer to section "Navigating Optus SecureCam Mobile".

Notification

Email and SMS (text) notification messages can be sent whenever a video event is triggered within the notification schedules. Each account is allowed a limit of 10 SMS notifications and unlimited Email notifications. To set up notification, please refer to the "Subscribers" and "Schedules" sections of "Navigating the Optus Securecam portal".

Navigating Optus SecureCam Mobile

Introduction

Optus SecureCam Mobile is an extension of the Optus SecureCam web site on your handset. Primarily it is for the purpose of viewing live cameras and video archives, but also allows you to view account status and history and to disable notification for a period of time.

This document briefly explains how to install and use the application.

Installation

You can install the application in two ways – direct from the internet or offline using the utility program that came with your handset.

Install to Handset direct from Internet ("Over-the-air" or OTA)

When you register your Optus SecureCam account a text message will be sent to each of your nominated subscribers. It contains a brief set of instructions along with a URL to visit from your mobile. Follow these steps.

1. Open the link using your handset web browser.
2. Click on the link **"Download SecureCam"**.
3. Follow prompts to on your handset to install the application.

Install to Handset from PC (Offline)

1. Log into the Optus SecureCam web portal and click **"Video"** and then click on the handset image with the link "View from mobile". See image on right.
2. At the bottom of the page is a list of supported handsets under the heading "All Certified Models".
3. Download the application by selecting your handset.
4. Uncompress the file using a zip file utility such as winzip or if you are running Windows XP or later right click on the file and select **"Open with"** and then **"Compressed (zipped) Folders"**.
5. Open your handset software. The utility for Nokia and Sony handsets is called PC Suite. For Blackberry handsets it is called "Desktop Manager".

6. Select **"Install Applications"**.
7. Browse to the location you uncompressed the files in step 4 above.
8. Highlight the SecureCam application and install.

Launch application

Different model handsets install applications in different locations. Nokia phones typically install it under “Installations” or “Applications”. Other phones use “Apps” or “Games”.

The application is called “SecureCam” and will have this icon.

Click on the icon. The application will start up with the splash screen on the right.

Logging in

The first time you use the application you will be required to enter a username and password. The username is the mobile number you used to register with. The password is the same password you selected for the Optus SecureCam website. Once you have entered your mobile number and password select **“Login”** from the menu.

Your handset will then display a message similar to “Allow network access?” telling you the application wants to make a data connection to the internet. Select **“Yes”** or **“Allow”**. Your handset may also prompt you to select a data connection known as an “APN”. Select the default. A “confirming login details” window will appear like right.

If your username and/or password were incorrect this message will be displayed.

Otherwise, you will be logged in and presented with a list of cameras.

Cameras List

When you first login to the application you are presented with a list of all your cameras as well as public webcams you have added to your favourites.

From here you can select a camera to view the camera live. Alternatively, you can select from the menu to access all the other features. These include Main Menu, History, Archives, and others. The menu options are shown below and explained later in the user guide:

Main Menu: Access the Optus SecureCam main menu (see below).

History: View your Optus SecureCam account history.

Settings: Change your settings (auto login and video quality).

Enable/Disable Notification: turn SMS and Email notification on or off for a period of time.

Video Archive: Access your video archives.

Multi View: Select multiple cameras and view them simultaneously.

Exit: Shutdown the Optus SecureCam application.

View Camera Live

To view the camera live, simply select the desired camera from the Cameras list. You will see a "connecting..." screen like at right.

If your camera is online, you should see footage come through within 10 seconds. This depends on the speed of your mobile broadband service and the speed of the broadband service where you camera is connected.

Once a camera has been selected, press the menu key for access to additional features as shown below:

Enable Motion Detection: turn on motion detection for this camera.

Screen Shot: take a snapshot of the live stream from the camera.

Record: begin recording the live stream from the camera.

Back: return to the Cameras list.

Video Archive: Access your Video Archives.

Navigation

To move your camera, simply use the joy stick of your handset. You will see these icons appear in the top right confirming your selection.

To move the camera to its "home" position press the **"1"** button. The icon will appear. To move to saved locations known as "presets", press the button 2 through to 9.

The icon will appear. 2 moves to the first preset, 3 to the second, 4 to the third, etc. Your camera comes configured with 8 presets equally spaced around the horizontal axis.

Press the **"0"** key to switch to full screen mode.

Main Menu

Go to the main menu be selecting **"Main Menu"** from the options menu. You will see the following screen.

You are presented with three options – "Live", "Archive" and "History".

Live takes you back to the camera list to view live video. Archive shows a list of video events and archives. History shows events that have come through and notifications – similar to the Optus SecureCam website.

Archive

Selecting the archives screen presents you with a screen similar to below. It is ordered by your camera. Under each camera there is a list of video events listed by date. If the video event was received within a schedule an icon will appear along side the date. Select the archive you wish to see simply by navigating down the list of dates and press the select button.

History

The history page shows the 10 most recent video events – listed by a short description of the event and the date.

Expand the list to see further details including who was notified.

If there is video associated with the event an icon will appear. Selecting this item will take you directly to the archives screen and begin playing this archive.

Other general options

User can change the setting for options such as auto logon and video quality by selecting **"Setting"** option in Main Menu and System. The check box allows user to define whether automatically login or manually login when opening the application (Figure 3.7.1). Video quality also can be justified from low (0) to high (10).

Appendix A:

Troubleshooting your Camera

The following table lists camera conditions and their corresponding LED states.

Condition	LED color
Loading system after power on	Steady red
During booting procedure	Steady green, blue and red
Detecting and setting network	Steady green and blue. Blink red till IP address is confirmed
After network is setup (system up)	Blink green every second and steady red
During the upgrade firmware process	Blink green every second and fast blink red
Enable audio	Steady blue. Disable audio will turn off blue LED.

Reset and restore

There is a button in the back side of the Network camera. It is used to reset the system or restore the factory default settings.

RESET: Click on the button.

RESTORE: 1. Press on the button continuously.
2. Wait for all LEDs to blink fast.
3. Free the button.

Q: Why does my camera spin when I power it on?

A: Your camera is calibrating itself, it is normal for you camera to spin and emit sounds for the first 3 minutes after powering on.

Appendix B:

Troubleshooting your Network

You can find our support pages and FAQ on **http://mobile.optus.com.au**.

Q1: My camera is powered on and the Ethernet cable is plugged in. How do I know if my camera has an IP address?

A: Refer to Appendix A: Troubleshooting your Camera, if the network is up (system up) then Green will blink every second and steady red, please check the following items:

1. Enable DHCP in your network.
2. Ensure the Ethernet cable is not faulty. The hub/switch port light should be on.

Q2: I have internet connectivity, but I still can't add or view my camera. Why?

A: Please check the following items:

1. Ensure your camera has an IP address, refer to Q1.
2. Ensure UDP port 1194 outgoing is not blocked in your LAN/Wireless environment.

Q3: The camera is working fine via an Ethernet cable, but wireless won't work. Why?

A: Please check the following items:

1. Check the setting for WLAN as the camera is 802.11g compliant only.
2. If you use an Access Point (AP), you have to choose 'Infrastructure Mode'.
3. Please check that the settings are the same for both AP and camera. You have to check that the SSID/Preamble/Security Options/Data Encryption/Key length/Key format/Network key are the same for both AP and camera.
4. Unplug the power card and Ethernet cable then plug in the power card again into WLAN mode.
5. Refer to Appendix C: Wireless Security Guide and Options for assistance.

Appendix C:

Wireless Security Guide and Options

SSID - Network ID

This is the name of the wireless network the camera is configured for. The field accepts up to 32 characters. The name must be exactly the same as that used in the wireless section of your router, or the connection will not be established. Note that SSID is sometimes written as ESSID.

Security

The two security methods supported are WPA and WEP, as described below. WPA is the strongest encryption method and is recommended. Not using wireless security is not recommended.

WPA (Wi-Fi Protected Access) Settings

The camera uses a pre-shared key (PSK) for key management, and TKIP or AES as the cipher. The pre-shared key can be entered either as Manual hex, as 64 hexadecimal (0-9, A-F) characters, or as a Passphrase, using 8 to 63 ASCII characters. The longer the passphrase the more secure the key.

WEP (Wired Equivalent Protection) Settings

- Authentication — Select Open System, Shared Key Authentication or both, depending on the method used by your wireless connection. Not all wireless connections have this option, in which case they probably use Open System, which may also be called SSID Authentication.
- WEP Encryption — This sets the length of the key used for the wireless encryption.
- Key Mode — The key types available depend on the access point being used. Key generation is not standardized and can differ between brands. Check that the generated keys are identical to those in your wireless connection setting - if not they must be entered manually. The following options are available:

  Hex – allows you to manually enter the hex key.

  ASCII – In this method the string must be exactly 5 characters for 64-bit WEP and 13 characters for 128-bit WEP.

  4 WEP key options – This selects which of the 4 keys (HEX or ASSCII) the camera uses when transmitting. The key you entered must be the same as the setting in your router.

Appendix D:

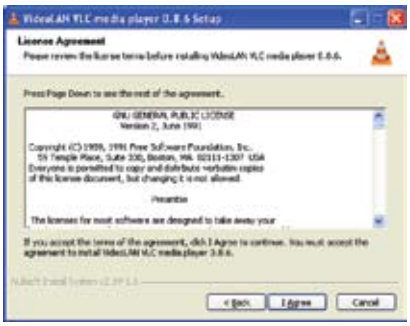
Installing VLC media player

Installing on PC

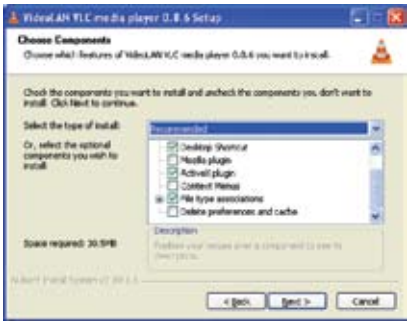
VLC media player is required to view camera streams from the web. To install VLC media player.

1. Click the VLC media player link in the Video section of the Optus SecureCam platform.
2. Select to save file (please note where the file is saved to).
3. Open/run the file downloaded.
4. Select the desired language then **"OK"**.

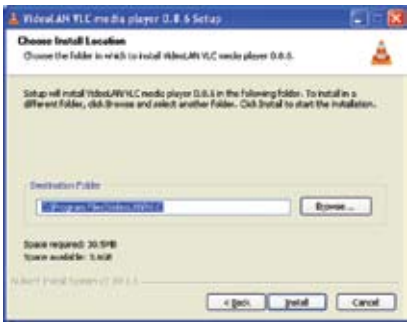
5. Select **"Next"**.



6. You will be directed to a VLC media player terms and conditions page. If you agree to the conditions select **"I Agree"**.



7. Select **"Next"**.



8. Select **"Install"**.

9. Congratulations you have successfully installed VLC media player, select **"Finish"** to complete installation process.

Technical Specifications

System

- CPU: Vivotek VVTK-1000
- RAM: 32MB SDRAM
- ROM: 4MB FLASH ROM

Networking

Protocol

- TCP/IP, HTTP, SMTP, FTP, DDNS, UPnP, Telnet, NTP, DNS, DHCP and RTSP

Physical

- 10 baseT or 100 baseT Fast Ethernet auto negotiation

WLAN

- 802.11g wireless LAN

Video

Algorithm supported

- MPEG4 (simple profile) for streaming video
- JPEG for still image

Features

- Adjustable image size, quality and bit rate
- Time stamp and text overlay
- 3 motion detection windows

Resolution

- Up to 30/25 frames at 160x120
- Up to 30/25 frames at 320x240
- Up to 30/25 frames at 640x480

Camera Specification

- 1/4 inch color CMOS sensor
- Resolution: 640x480
- 1.5Lux/F2.0
- AGC, AWB, AES
- Electronic shutter: 1/60 ~ 1/15000 second

Lens

- Fixed focal with fine tuning, 4.0mm, F2.0

Audio

- AAC, GSM-AMR

Microphone

- Omni-directional
- Frequency: 50 – 16000Hz
- S/N ratio: more than 60dB

LED indicator

- Three color LEDs

Dimension

- 100mm(D) * 110mm(W) * 120mm(H)

Weight

- NET. 271g

Power

- Input: 100-240VAC, 50/60Hz, 0.5A
- Output: 12VDC, 1.5A
- Consumption: Max 7 W

Operating Environment

- Temperature: 0-50°C/32-122°F
- Humidity: 95%RH

EMI & Safety

- CE, FCC

Viewing system requirement

Operating system

- Microsoft Windows 98SE/ME/2000/XP

Browser

- Internet Explorer 5.x or above

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